Comparisons of Job Characteristics

Focus Occupation: Computer Specialists, All Other (15-1099)
Associated Occupation: Computer Systems Analysts (15-1051)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge — Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Computer Specialists, All Other (15-1099)
Associated Occupation: Computer Systems Analysts (15-1051)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	19.3	19.7	0	Current knowledge level may be sufficient
Customer and Personal Service	11.3	15.4	11.3	<<	Extensive education and/or training may be required
Education and Training	9.2	13.2	9.4	<<	Extensive education and/or training may be required
Administration and Management	8.4	11.3	9.9	<	Expanded education and/or training may be required
Engineering and Technology	5.7	11.0	11.5	0	Current knowledge level may be sufficient
Telecommunications	3.9	6.8	9.0	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills — Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Computer Specialists, All Other (15-1099)
Associated Occupation: Computer Systems Analysts (15-1051)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Systems Evaluation	6.4	12.7	11.1	<	A higher skill level may be required
Active Learning	8.7	12.6	10.7	<	A higher skill level may be required
Systems Analysis	6.5	12.6	10.6	<	A higher skill level may be required
Operations Analysis	5.0	10.6	12.0	>	Skill level is likely sufficient
Quality Control Analysis	5.9	10.3	7.9	<<	Extensive development of skills in this area may be required
Programming	2.2	10.2	10.0	0	Current skill level may be sufficient

Technology Design	2.6	9.7	6.6	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	8.9	6.1	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities — Similarity of Focus Occupation to Associated Occupation: 99

Focus Occupation: Computer Specialists, All Other (15-1099)
Associated Occupation: Computer Systems Analysts (15-1051)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Deductive Reasoning	10.6	13.9	12.8	0	Current ability level may be sufficient
Information Ordering	9.9	12.9	11.7	<	Some improvement in abilities may be required
Fluency of Ideas	7.6	12.7	10.1	<	Some improvement in abilities may be required
Category Flexibility	9.0	11.8	10.4	<	Some improvement in abilities may be required
Originality	7.6	11.6	9.8	<	Some improvement in abilities may be required
Flexibility of Closure	7.8	10.4	8.7	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	10.3	8.2	<	Some improvement in abilities may be required
Speed of Closure	5.9	8.8	7.2	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common — Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Computer Specialists, All Other (15-1099)
Associated Occupation: Computer Systems Analysts (15-1051)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Content management software	6
Data management and query software	1
Development software	4
Industry specific software	1
Network applications software	1

Network management software	37
Networking software	21
Operating environment software	12
Personal communication devices	2
Security and protection software	30
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.